

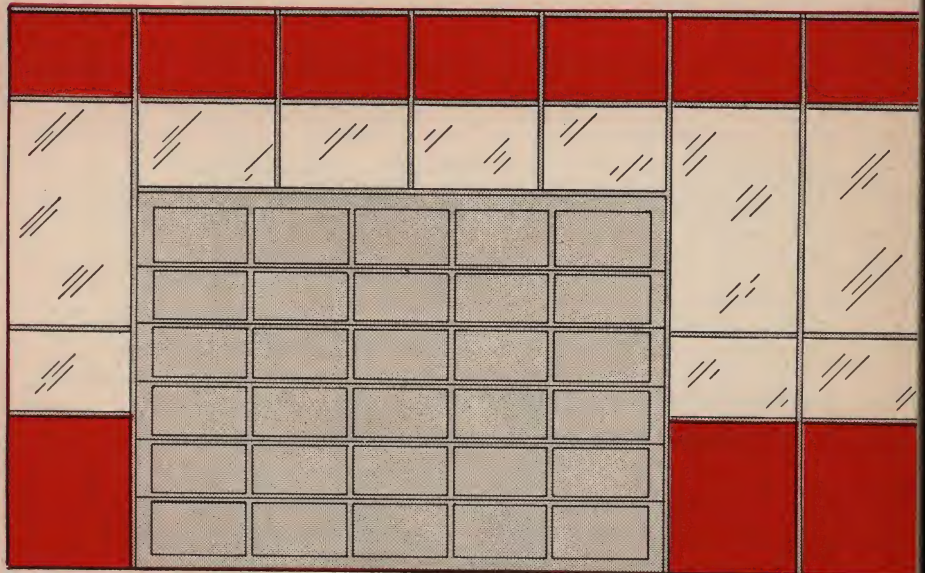


ARM-R-LITE

aluminum

OVERHEAD DOORS

**STRONGER SECTIONS—
LIGHTER DOOR—
CORROSION RESISTANT—
ALWAYS ATTRACTIVE**



ARM-R-LITE

DOOR MFG. CO., INC.



INDEX

Introduction	2
Al-Lite Models	3
Service Station	3
Industrial Models	4-5
Features	4-5
Pass Door	4
Track Details	6
Opening Preparation	6
Hardware	7
Operation	7
Representatives	8

INTRODUCTION

The ARM-R-Lite ALUMINUM DOOR was designed with three factors in mind—APPEARANCE—STRENGTH—and DURABILITY.

APPEARANCE—The ARM-R-LITE ALUMINUM DOOR'S natural beauty blends in with the design of the many modern prestige buildings being erected today. Aluminum itself is highly attractive and needs no special adornment for many applications.

STRENGTH—A low modulus of elasticity gives ALUMINUM extra ability to resist impact without deforming permanently. This plus our special methods of fabrication have produced a door with maximum freedom from warpage and sagging so common in wood doors.

DURABILITY—ALUMINUM DOORS need no protection. Their natural resistance to corrosion guarantees a lifetime installation with little or no maintenance. The splitting, checking, peeling and rot that deteriorates wood doors can not happen here.

FEATURES

Lengths of extruded hollow aluminum shapes are fabricated by a special heli-arc welding process to produce the framework of the section. The joints where the extruded lengths meet then are as strong or stronger than the extruded material itself. The constant vibration and jarring of operation can never loosen these solid one piece sections as is the case where fabrication is accomplished with bolts and nuts or screws.

All welds are ground smooth and the entire sections polished, producing an attractive satin finished surface that deters dust and dirt accumulation. A chemical solution with excellent corrosion, abrasion and water resistant qualities is applied to provide a protective coating. A specially developed lacquer is then sprayed on to preserve this beautiful finish.

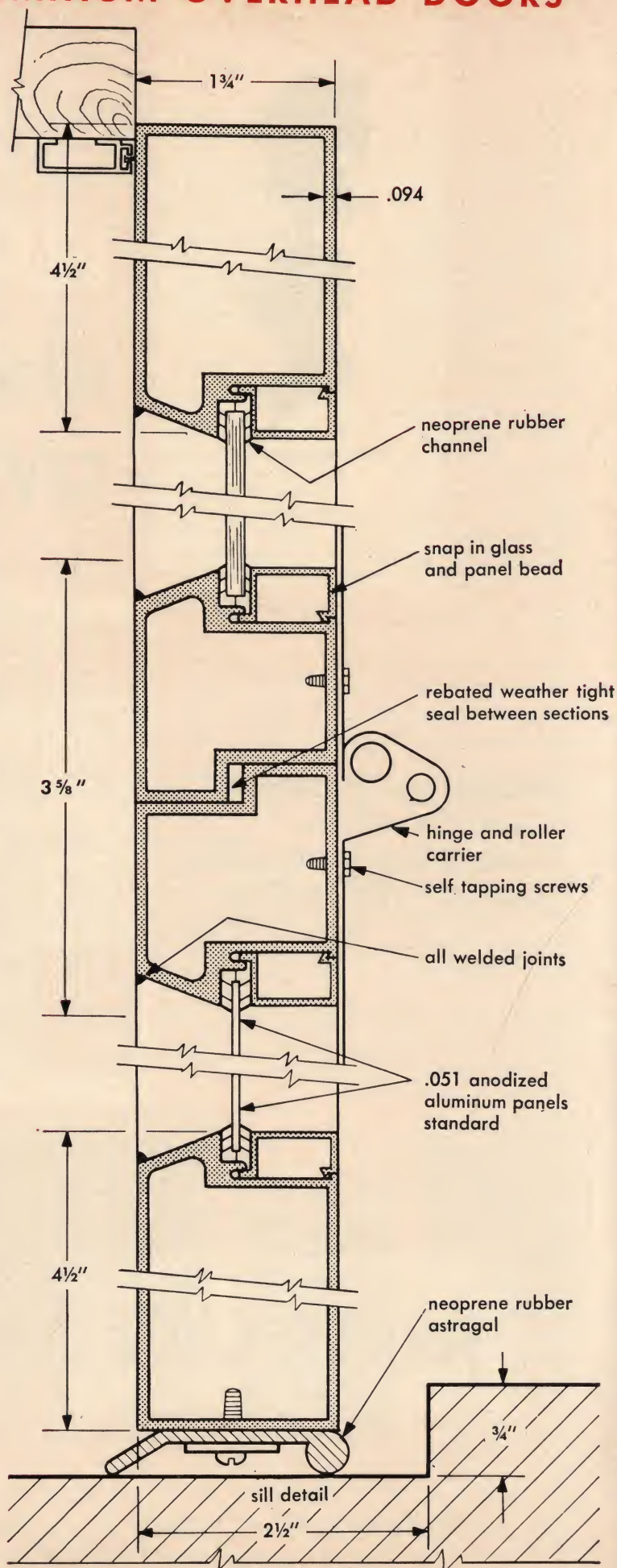
Meeting rails are so formed as to produce a rebated weather tight joint between sections.

Aluminum panels are set in a neoprene rubber channel which seals the panel in the frame making it weather tight and rattle free. Glass panes are also set in a neoprene rubber channel that seals and cushions it against breakage from shock. They are held in place by an aluminum snap in molding which allows for easy removing and replacing of panel or glass. A clean exterior surface, free from bolt heads is accomplished on most doors by self-tapping screws which hold the hardware in place. Where engineering demands, a minimum of thru bolts are used.

Where installations require a maximum of light and vision the AL-LITE door has been designed. This model offers a narrow line frame, all glass door excellent for use on service stations, auto showrooms and drive in establishments.

SALES, INSTALLATION AND SERVICE

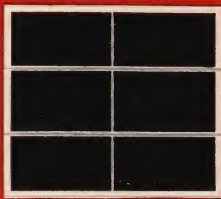
Sales, installation and service is provided by long established franchised distributors selected for their stability, diligence and integrity. These are people who take pride in their accomplishments and back our conviction, a satisfied customer is our first consideration.



AL-LITE MODELS —

SIZES — up to 12'-6" wide & 12'-6" high

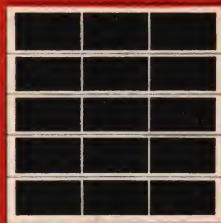
STOCK SERVICE STATIONS DESIGNS



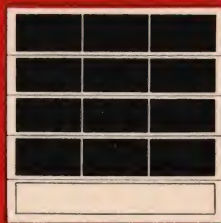
MODEL A-302
all sections glazed
sizes up to 10'-0" w. x 10'-0" h.



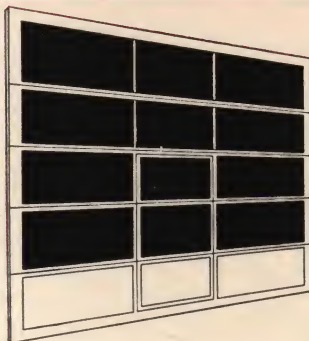
MODEL A-403
all sections glazed
sizes up to 12'-0" w. x 10'-7" h.



MODEL A-503
all sections glazed
sizes up to 12'-6" w. x 11'-0" h.



MODEL A-503A
paneled bottom section
top 4 sections glazed
sizes up to 12'-6" w. x 10'-6" h.



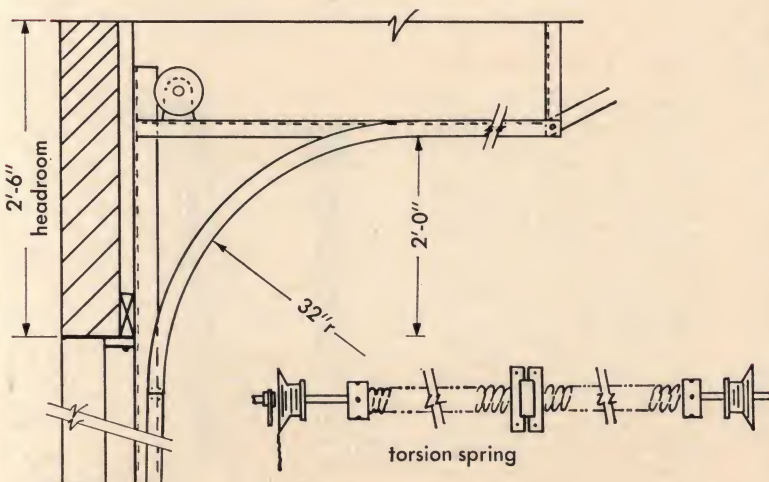
PASS DOOR

Five and six section Al-Lite model Doors can be equipped with pedestrian doors in the lower three sections for convenient access without the need for constantly opening the parent door.

All pedestrian doors are built with a rebated weatherseal completely around door (See Page 4). Six heavy duty spring loaded hinges assure a self closing action.

32" RADIUS TRACK

Standard on service station models. Allows the large sections to glide smoothly around the sweeping curve. Provides life clearance required to raise door above service area greasing racks.



ARM-R-LITE DOORS

FOR

- SERVICE STATIONS
- CAR WASHES
- FIRE HOUSES

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SPECIFICATIONS—AL-LITE DOOR

Aluminum sectional overhead doors shall be by Arm-R-Lite Door Manufacturing Company, West Orange, New Jersey, and constructed of extruded aluminum shapes of 6063-T 5 Alloy with a wall thickness of not less than .094 to produce a finished door of 1 $\frac{3}{4}$ " thickness. All joints to be heli-arc welded, and welds ground smooth and the entire door surface polished to produce a grained #180 Finish. Metal is then to be bonderized and receive one coat of Methacrylate Lacquer.

Muntins—Narrowline H Type.

Panels—to be .051, anodized sheet.

Track—2" x .093 galvanized, with full vertical and horizontal angle mounting. (32" Radius which provides two foot of lift is standard for service station models. All models can be provided with standard or lift clearance track. Please Specify.)

Hardware—12 gauge plated.

Rollers—Heavy duty full ball bearing with hardened inner and outer race.

Counter Balance—Torsion springs, cast aluminum drums, air craft cable.

Locking Device—Arrangement #1 or #4.

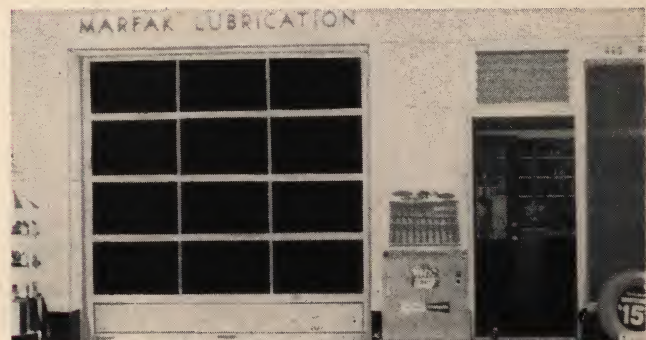
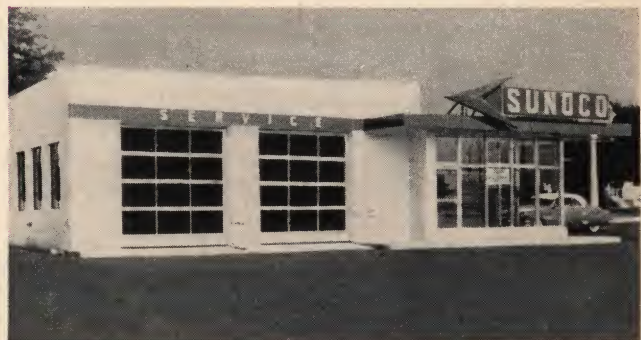
Glazing—Doors to be factory glazed with $\frac{1}{8}$ " Arm-R-Clad Tempered Glass set in continuous neoprene channel and held in place by snap-in glazing bead for easy removal.

Stops—Furnish $\frac{3}{4}$ " x 2 $\frac{1}{2}$ " "Positive Seal" door stops.

Astragal—Bottom of door to have neoprene rubber astragal fastened to door with an aluminum bar and self tapping screws.

ALTERNATE SPECIFICATIONS

Double strength glass can be used for glazing in place of $\frac{1}{8}$ " Arm-R-Clad. Extension springs in place of Torsion on standard lift track only.



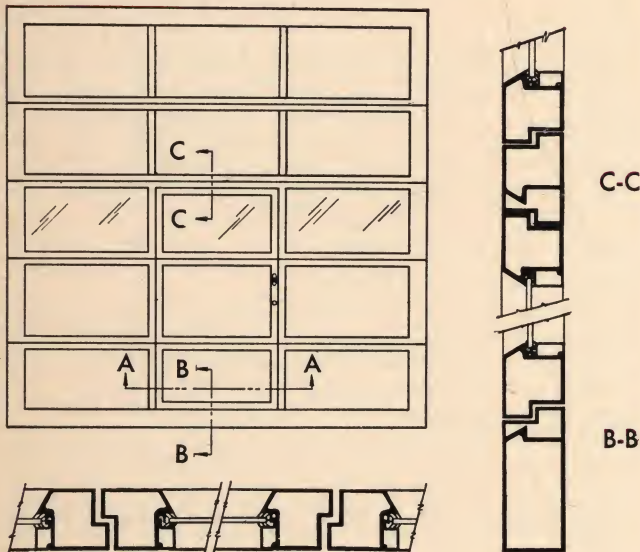


ARM-R-LITE

ALUMINUM OVERHEAD DOORS

FEATURES

PASS DOORS



SECTION A-A

Any size Arm-R-Lite door can be furnished with a pass door for convenient pedestrian access. This eliminates need for constantly operating the parent door.

The normal width of a pass door is between 2'-6" and 3'-6" wide. It is usually located one panel in from the right or left side of the door.

A rebated weatherseal completely around the door affords protection against the elements. Six heavy duty, surface mounted, spring loaded hinges assure accurate alignment and self closing. An aluminum key in knob lock set with interior latch, provides access from either side and securely locks door.

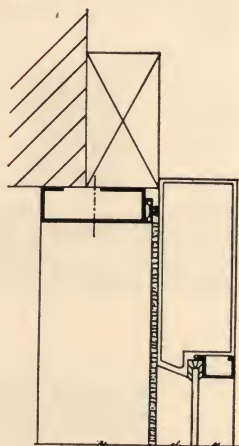
When the parent door is over 15'-11½" wide, a center support track is required.

THE "POSITIVE SEAL" DOOR STOP

Arm-R-Lite engineering has designed the "Positive Seal" door stop to work in unison with the closing action of the Arm-R-Lite track to provide an absolutely tight weatherseal around the door and still allow it to work perfectly free while in motion.

This extruded aluminum stop is slotted on the side that butts against the door to receive a ⅝" thick Schlegel Wovenpile Weatherstrip. This weatherseal, composed of millions of flexible fibers, and given even greater resiliency by treatment with Dow-Corning Silicone provides positive protection against wind, rain, snow, dust and dirt. The woven pile stops drafts. Unaffected by temperature changes, it gives to let the moving door operate easily; then springs back at once to hold and seal.

Further, the woven pile weatherseal provide a cushion between rigid surfaces that otherwise would bang and scrape or rattle on windy days. The moving door rides easily on dense pile fabric. Laboratory tests show that hundreds of thousands of opening and closing actions cause no appreciable wear. The earliest installations, now more than 25 years old are still in excellent working condition.

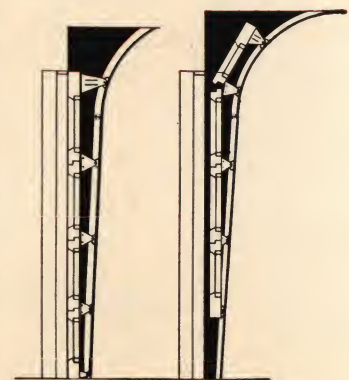


STANDARD SECTION AND

	widths		
	up to 8'-6"	8' -7" to 11'-6"	11'-7" to 15'-6"
heights	up to 8'-6" no. 402	 no. 403	 no. 404
	8'-7" to 10'-6" no. 502	 no. 503	 no. 504
	10'-6" to 12'-6" no. 602	 no. 603	 no. 604
	12'-6" to 14'-6" no. 702	 no. 703	 no. 704

THE ARM-R-TITE TRACK

Starting from the floor the inclined vertical tracks pitch away from the jamb at the rate of ¼" per door section. The end hinges with roller sleeves of progressively graduated height guide the descending door tightly against the door stop. When opening, the door is guided up and away from the door stop. This opening and closing action of the Arm-R-Tite track in conjunction with Arm-R-Lite's specially designed "Positive Seal Stop" ends the search for a tight fitting easily operating door.

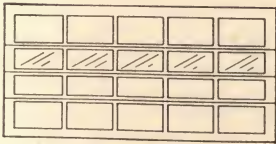


PANEL DESIGN CHART

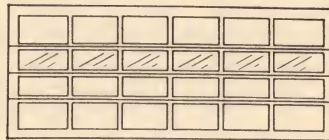
widths

15'-7" to 19'-6"

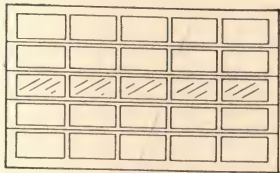
19'-7" to 22'-0"



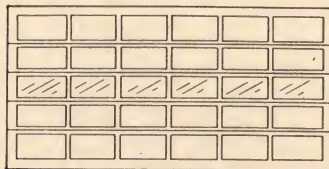
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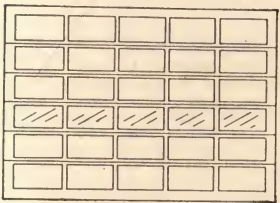
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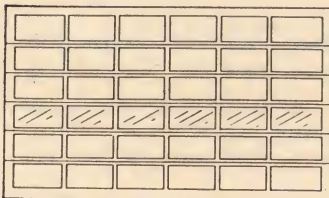
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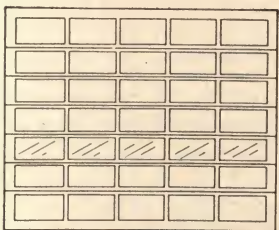
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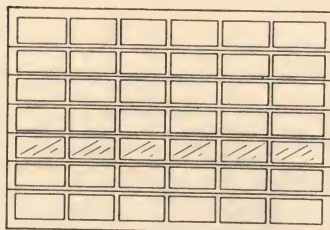
no. 605



no. 606



no. 705



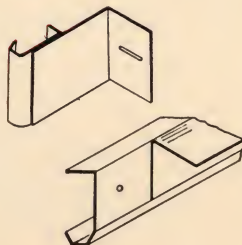
no. 706

TRACK AND TRACK REINFORCING

All 2" track is .093 Thick.

All 3" track is .125 Thick.

As standard and at no increased cost all Arm-R-Lite track is furnished with continuous angle reinforcing on both the vertical and horizontal track. When specifying the track, always specify continuous angle reinforcing and give the particular reinforcing required by the size door to be used. Vertical tracks mounted on flimsy brackets soon become wobbly, out of line and insecure. The door then no longer operates with 100% efficiency.



SECTIONS AND PANEL ARRANGEMENTS

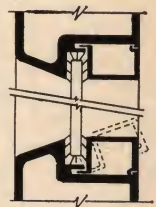
The design chart at the left illustrates the various standard door models. This chart indicates a certain number of sections and panels for a door falling in any specified height and width classification. Thus from on hand inventory, we can then fabricate at an economical price, doors unequalled in appearance, strength and durability.

Not to discourage individuality, Arm-R-Lite will make any custom designed door with as many or as few panels and sections as specified.

Custom doors up to 36'0" wide and 20'0" high can be made to order.

GLASS AND PANELS

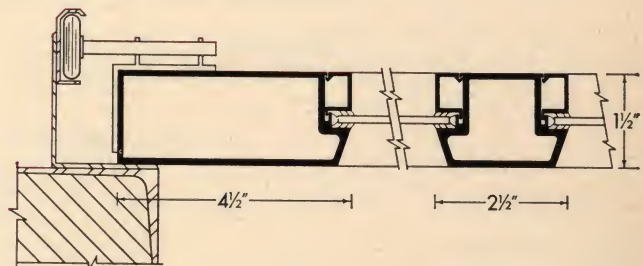
Glass and panels are wrapped in a continuous neoprene rubber channel, then inserted in the frame and held in place by a snap-in aluminum bead. This snap-in bead allows for easy on the job replacement of a damaged panel or a broken light of glass by anyone.



One section of double strength glass (as indicated in the section and panel chart), is standard on all industrial doors, although any door can be provided with as many glass sections as required or with all sections paneled. Any thickness glass up to and including 1/4" can be used. Caution should be taken however in the placement of glass sections (with glass over 1/8" thick) due to the weight differences of the aluminum panels and the glass. Improper placement makes necessary special spring engineering. For example: Where two sections of 1/4" thick glass are required in a six section door place the glass sections in the center of the door or the third and fourth sections which will produce an evenly balanced door. Do not place them in the fifth and top sections if possible since a top heavy door will result.

Anodized aluminum sheet of .051 thickness is the standard panel used for industrial doors. On special order sections can also be prepared to receive aluminum sheet up to .125 thickness, fiber-glass, porcelain, Arm-R-Ply or similar materials in thicknesses thru 1/4".

SECTION CONSTRUCTION



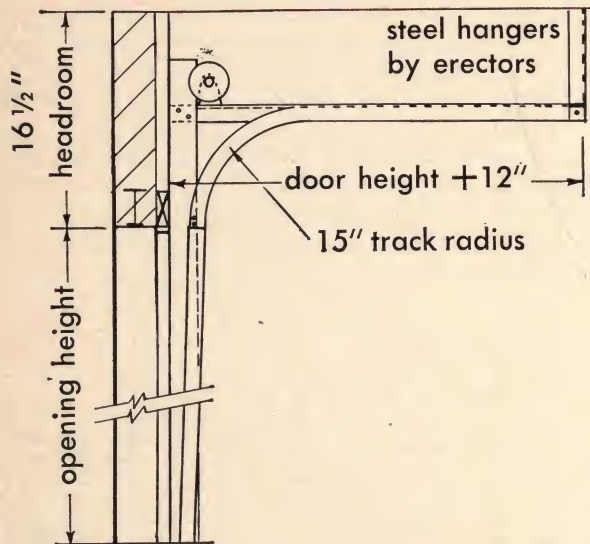
End and intermediate stiles are contour milled to form a precise fit with rails. Joining is then accomplished by heli-arch welding to produce a most rigid frame of maximum strength. All welds are ground smooth and polished. Top and bottom rails and end stiles, all EXTRA LARGE, measure a full 4 1/2". Intermediate Stiles are 2 1/2". Intermediate Rails are 3 5/8" per pair. This truly is a door designed to stand the rigors of daily commercial and industrial use.



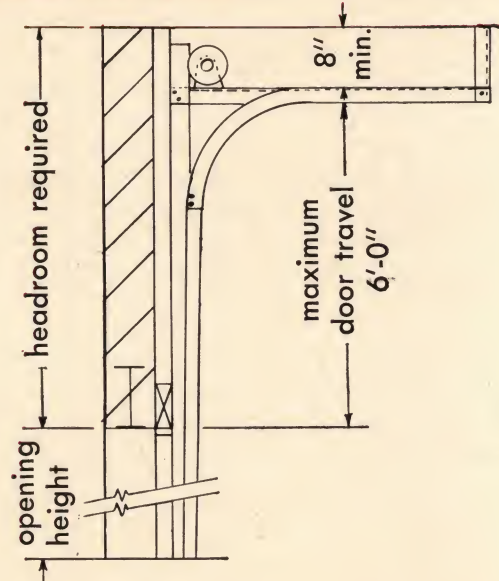
ARM-R-LITE ALUMINUM OVERHEAD DOORS

TRACK AND FRAME DETAILS

STANDARD 15" RADIUS



LIFT CLEARANCE TRACK

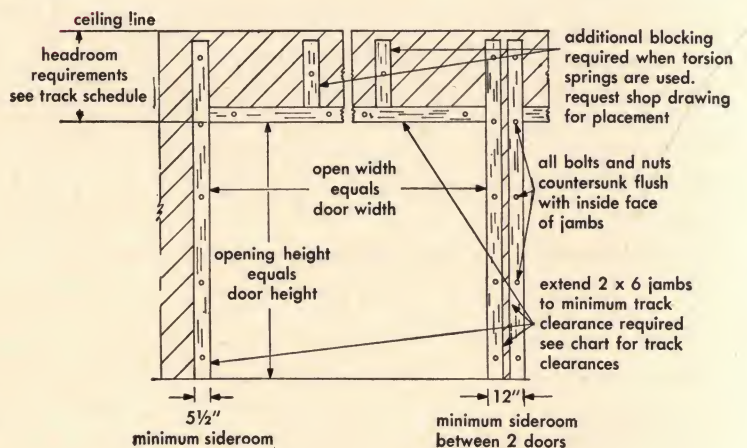
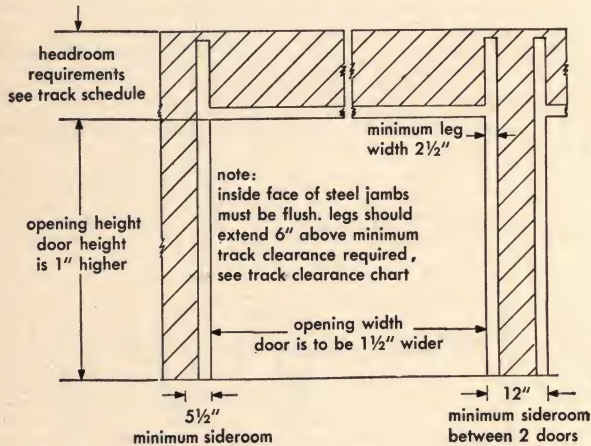


Supplied on all doors except where special equipment and/or requirements dictate otherwise. Special attention should be given to track clearance requirements during preliminary stages of building layout. Sufficient headroom, sideroom and backroom must be allowed for the door track and any special equipment requiring additional space. See track schedule page 7. Torsion or extension type springs can be used with standard radius track. Torsion springs are preferred.

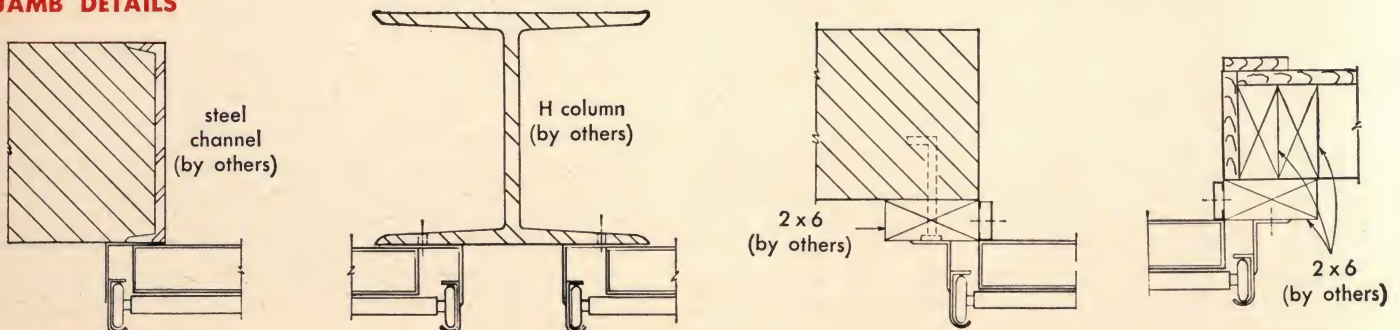
OPENING PREPARATION (by others)

One of the most important items which can affect the proper operation of a door is the preparation of the opening. An improperly prepared opening often results in the most precision engineered door

operating poorly. Proper jamb preparation is an absolute necessity if a good working door is to be obtained.



JAMB DETAILS



METHODS OF OPERATION

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TRACK SCHEDULE

The track schedule below is provided to assist in the proper selection of the size track and angle reinforcing to be used in relation to the door size. Specify track according to track number in column 3.

door size width	height	track no.	track size	vertical mounting wood jambs	vertical mounting steel jambs	type of angle reinforcement on horizontals	stand- ard track radius	head- room re- quired	side room re- quired
to 12'-2"	10'-6"	2 L	2"	1½ x 3½ x 12GA	2½ x 2½ x 12GA	2 x 2 x 13GA	15"	16½"	5½"
to 20'-2"	10'-6"	2 M	2"	1½ x 3½ x 11GA	2½ x 2½ x 11GA	2 x 2 x 11GA	15"	16½"	5½"
to 24'-2"	10'-6"	2 H	2"	1½ x 3½ x 10GA	2½ x 3½ x 11GA	2½ x 2½ x ¾	15"	16½"	5½"
to 12'-2"	12'-6"	2 M	2"	1½ x 3½ x 11GA	2½ x 2½ x 11GA	2 x 2 x 11GA	15"	16½"	5½"
to 20'-2"	12'-6"	2 H	2"	1½ x 3½ x 10GA	2½ x 3½ x 11GA	2½ x 2½ x 11GA	15"	16½"	5½"
to 24'-2"	12'-6"	3 M	3"	1½ x 3½ x 11GA	3 x 3 x 10GA	2½ x 2½ x ¾	15"	17½"	6½"
to 12'-2"	14'-6"	2 M	2"	1½ x 3½ x 11GA	2½ x 2½ x 11GA	2 x 2 x 11GA	15"	16½"	5½"
to 18'-2"	14'-6"	2 H	2"	1½ x 3½ x 11GA	2½ x 2½ x 11GA	2½ x 2½ x 11GA	15"	16½"	5½"
to 24'-2"	14'-6"	3 H	3"	2½ x 3½ x 11GA	3 x 3 x 10GA	2½ x 2½ x ¾	15"	17½"	6½"

Note: Headroom and sideroom measurements shown are for standard installations. Additional equipment may require more room. Check special equipment pages for details.

CHAIN HOIST

The use of this manually operated 3 to 1 reduction gear unit is dictated by the size and weight of the door. Normally all doors over 14'0" wide 13'0" high should be equipped with a chain hoist.

The chain hoist unit is mounted on one of the vertical tracks and operates the door by means of a ½" pitch endless roller chain connecting a sprocket on the chain hoist unit with a sprocket on the Torsion Spring Shaft, or in the case of extension springs, with a sprocket on the cross header shaft which is provided.

The Chain Hoist is then operated from the floor by an endless cadmium plated hand chain.

additional space requirements

Sideroom	Headroom
4" on Chain Hoist Side Only	8"

ELECTRIC OPERATORS

Model LC—For commercial and light industrial doors up to 16'-2" Wide and 14'-1" High. Equipped with ⅓ or ½ H.P. Motors. Three button control station.

Model HDC—Heavy duty industrial type for doors up to 36' wide and 16' high. Equipped with ⅓, ½ or ¾ H.P. motor. Solenoid brake, and built in emergency chain hoist. Three button control station.

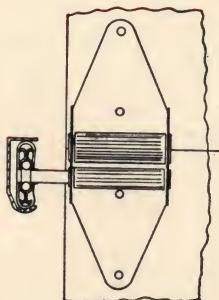
STANDARD HARDWARE

HINGES AND ROLLERS

Arm-R-Lite heavy duty zinc plated 12 gauge hinge leafs connected by oversize tubes assure a large bearing area and easy pivoting.

On most doors the hinges are securely fastened to the frame with ¼" x 20 Hex head self tapping screws which give tremendous holding power leaving the exterior beauty of the door unmarred by unsightly bolts. Only on extremely large doors, where engineering demands, are a limited number of thru bolts used.

Full ball bearing rollers with large balls of chrome steel ride on case hardened inner and outer races assuring long life and operating ease.



LIFT CABLES

Each door is raised and lowered by seven strand-nineteen wire galvanized steel aircraft type cables of a diameter properly selected according to the door weight plus a large safety factor.

SPECIAL REINFORCING

Arm-R-Lite doors up to 14'1½" wide do not require reinforcing against deflection in the open position except in special instances. The inherent strength of the all welded tubular frame together with the elasticity of aluminum provides an exceptionally rigid door which will always retain its straightness.

Doors over 14'1½" wide are additionally reinforced with 16 gauge galvanized steel U shaped struts. On doors 22'2" wide and over these struts are used in conjunction with a center support track.

COUNTER BALANCE

Torsion springs—Made of heavy duty oil tempered steel wire individually designed for the weight of the door and mounted on a continuous ball bearing cross header shaft with cable drums of cast aluminum or steel. Can be used with any track arrangement except low headroom.

Extension springs—Matched springs of heavy duty oil tempered wire individually designed for the weight of the door offer close accuracy at a reduced cost. Steel aircraft cables ride on heavy duty ball bearing sheaves. Recommended for use with standard 15" radius track only.

CENTER SUPPORT TRACK

Doors 16'-0" wide and wider with pass doors and all doors 22'-0" wide and wider are supplied with a center support track. Doors with center track require 6" additional headroom.

LOCKING DEVICES

Arrangement #1 Manually operated-torsion spring door: Throw bolt type, with five pin cylinder lock, mounted on the end stile of door.

Arrangement #2 Manually operated-extension spring door: Cremone type with heavy lock bars engaging both tracks. Equipped with five pin cylinder lock and back latch. Two keys provided.

Arrangement #3 Chain hoist operated doors: Special bracket for locking in hand chain is mounted on track or door jamb. No other locking arrangement required.

Arrangement #4 Service station doors: Throw bolt type, mounted on end stile of door, engages track. Can be locked or opened from inside only.

Motor operated doors: Electric operator automatically locks door in the closed position. No other locking arrangement required.



ARM-R-LITE ALUMINUM OVERHEAD DOORS

SPECIFICATIONS—Commercial and Industrial Doors

Supply aluminum sectional overhead doors as indicated on plans complete with all necessary hardware, track, operating mechanism and etc. as manufactured by the Arm-R-Lite Door Mfg. Co. 1-5 White St., W. Orange, N. J. and installed by their authorized distributor.

Aluminum sections: Shall be 1 $\frac{3}{4}$ " thick and constructed of 6063-T 5 Alloy. Stiles and rails to be hollow extruded shapes with an .094 wall thickness. Bottom and top rails and end stiles to be 4 $\frac{1}{2}$ " wide, center stiles 2 $\frac{1}{2}$ " wide and meeting rails 3 $\frac{5}{8}$ " wide per pair. Meeting rails shall be designed to form a rebated weather joint. All stiles and rails shall be accurately joined and all joints heli-arc welded with deep penetration. Welds to be ground smooth and entire inner and outer door surfaces to be polished to a 180 grit finish.

Finish: All exposed surfaces to receive an Irlac #1000 bath followed by one coat of clear Methacrylate Lacquer.

Panels: .051 gauge anodized panels set in a continuous neoprene gasket and held in place by a snap-in type bead with no visible means of fastening.

Glass: Sections as indicated on the plans shall be factory glazed with type glass. Glass to be set in a continuous neoprene gasket and held in place by a snap-in bead for easy removal.

Door stop: Provide $\frac{3}{4}$ " x 2 $\frac{1}{2}$ " "Positive Seal" Aluminum door stop for outside of door, the side butting against door to be equipped with a woven pile weatherstrip.

Track: To be Arm-R-Lite No. track with vertical tracks mounted on continuous angles, and horizontal tracks reinforced with continuous angles.

Hardware: Hinges are stamped steel, 12 gauge, with plated finish. Rollers and sheaves are full floating ball bearing with case hardened inner and outer races. Cables are 7 strand 19 wire galvanized steel aircraft type designed to carry the weight of the door plus a large safety factor.

Springs: Twin helical wound oil tempered torsion type springs individually designed to counterbalance the weight of the door.

Locking Device to be arrangement No.

Reinforcing: Doors over 14'-2" wide to be reinforced with steel U type struts.

Shop drawings: Before performance of work under this contract complete shop drawings in quadruplicate shall be submitted to the architect for approval and verification of dimensions by installing agency.

Astragal: Bottom of door to have neoprene rubber astragal fastened to door with an aluminum bar and self tapping screws.

Alternate specifications

Extension Springs instead of Torsion Springs.

Additional specifications

Chain Hoist Page 7.

Electric Operator Page 7.

Lift Clearance Page 6.

Pass Doors Page 3 & 4.

ARM-R-LITE REPRESENTATIVES

ARKANSAS

Little Rock—Overdoors, Inc.
3019 Asher St.
MO 6-9048

CAROLINAS

Greensboro, N.C.—Beaman Engineering Co.,
1046 Westside Drive
Broadway 4-1771

CONNECTICUT

Hartford—Thompson Overhead Door Co.,
880 W. Boulevard
Adams 3-8614

FLORIDA

Miami—Beaman Engineering Co.,
Box 38-502 Little River Station
Plaza 1-2722

GEORGIA

Chamblee—Beaman Engineering Co.,
3149 Carroll Avenue, P.O. Box 213
Glendale 7-4455

MARYLAND

Baltimore—Beaman Engineering Co.,
532 Rosehill Terrace, P.O. Box 564
Hopkins 7-8900

MASSACHUSETTS

Hingham—Door Engineering Co. Inc.,
292 Lincoln Street, Route 3A
Riverview 9-3046

Methuen—The Builders Garage Door Co.,
476 Lowell Street
Murdock 2-2887

Wilbraham—Daniele Overhead Door Co. Inc.
LY 6-3930

NEW JERSEY

West Orange—Vindour Associates,
716 Eagle Rock Avenue
Orange 7-1531

NEW YORK

Buffalo—Adams Door Company,
1035 Englewood Avenue, Kenmore 23
Riverside 8203

Syracuse—C. H. Foster, Inc.
3420-22 Burnet Ave.

Utica—Cusworth Door & Window Company,
Horatio St., Aerial
RE 3-4637

NEW YORK CITY

Brooklyn—Christie & Sons, 2015 Utica Avenue
Cloverdale 2-6078

OHIO

Cleveland—Atlantic Door Company,
4220 East 146th St.
Ludlow 1-3700

OKLAHOMA

Lawton—Overdoors, Inc.
209 Euclid
EL 3-6658

Oklahoma City—Overdoors, Inc.
1819-30 N. W. 5th St.
Central 2-6767 - 2-6536

Tulsa—Overdoors, Inc.
403 So. Rockford St.
DI 3-3051

PENNSYLVANIA

Erie—Comstock Bldg. Products Company,
5612 E. Lake Road
Erie 8-3178

Harrisburg—Doors, Inc., 4250 Chambers Hill Road
Jordon 4-2057

Langhorne—Vindour Associates,
2624 Arrowhead Drive
SKYline 7-5155

New Castle—C. & D. Supply Co.

Pittsburgh—Better Bilt Supply, Inc.,
3614 Boulevard of Allies
Museum 1-6520

VIRGINIA

Norfolk—Door Engineering Corp.
700 Front Street

Richmond—Beaman Engineering Company,
2517 Grenoble St.
P. O. Box 4651-Ridge Branch

WASHINGTON, D.C.

Beaman Engineering Co.
532 Rose Hill Terr. Baltimore, MD.
Hopkins 7-8900



ARM-R-LITE DOOR MFG. CO., INC.

1-5 WHITE ST., WEST ORANGE, N. J.

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